

## Main Specifications

## ▼ Size

3.5"

## ▼ Process connection

High and low pressure port:  
Ø4 mm test hose x2

## ▼ Differential pressure range

-0.1~250MPa

Please refer to pressure range  
and accuracy table

## ▼ Applicable media

Liquids compatible with the  
connecting section and non-  
corrosive gases

## ▼ Ambient temperature

-20°C to +70°C

## ▼ Storage temperature

-40°C to +85°C

## ▼ Ambient humidity

&lt;95% R.H.

## ▼ Atmospheric pressure

860...1060 mbar

## ▼ Temperature error

Standard temp.: 20°C  
max. error: ±0.1% F.S  
(0~50°C)

## ▼ Accessory

3.6V lithium battery

Hose

## Other Specifications

## ▼ Ring

Aluminum die casting

## ▼ Back housing

Aluminum die casting

## ▼ Screen display

6-digit LCD

White backlight

## ▼ Refresh rate

Adjustable refresh rate:  
10 times/1sec to 1  
times/10secs

## ▼ Screen size

58 x 28 mm

## ▼ Pressure unit

mmH<sub>2</sub>O, mmHg, kgf, kPa,  
MPa, psi, bar, mbar, Pa,  
inH<sub>2</sub>O<Select units based on  
different ranges>

## ▼ Resolution

0.0001

## ▼ Measuring elements

High-tech silicon chip  
SS 316L diaphragm

## ▼ Accuracy

Please refer to pressure  
range and accuracy table

## ▼ Overpressure

Please refer to pressure  
range and accuracy table▼ Compensated  
temperature

0°C to 50°C

## ▼ Power supply

3.6V lithium battery /

AA batteries x3 /

Input DC 9V (2A) adapter

## ▼ Battery life

Please refer to battery life  
table

## ▼ Weight

450g

## Digital Precision Differential Pressure Gauge

### Model: AT803-D

## Introduction

The accuracy of AT803-D digital precision differential pressure gauge is up to  $\pm 0.02\%$ F.S., which is suitable for high precision micro differential pressure measurement such as on-site and laboratory pressure measurement and calibration.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

## Features

- OEM service
- Micro differential pressure measurement
- High accuracy - up to  $\pm 0.02\%$ F.S.
- 6-digit LCD display
- Zero adjustment button
- Low power consumption - continually operate over 10000 hours
- Large display screen 58 x 28 mm
- Switching between multiple pressure units

## Battery life table

Refresh rate	10times/1sec	3times/1sec	2times/1secs	1times/1secs	1times/2secs	1times/4secs	1times/6secs	1times/10secs
Battery life	300 Hours	600 Hours	8000 Hours	9000 Hours	10000 Hours	15000 Hours	2 years	3 years

## Pressure Range and Accuracy Table

Code	Pressure range	Accuracy (Standard)	Accuracy (Option)	Media	Overpressure
P1	-100~0kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P2	0~16kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P3	0~25kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P4	0~40kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P5	0~60kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P6	0~100kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P7	0~160kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P8	0~250kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P9	0~400kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P10	0~600kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P11	0~1MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P12	0~1.6MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P13	0~2.5MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P14	0~4MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P15	0~6MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P16	0~10MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P17	0~16MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P18	0~25MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P19	0~40MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P20	0~60MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	2*F.S.
P21	0~100MPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	1.5*F.S.
P22	0~160MPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	1.5*F.S.
P23	0~250MPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	1.2*F.S.

## Compound Pressure Range and Accuracy Table

Code	Compound pressure range	Accuracy (Standard)	Accuracy (Option)	Media	Overpressure
CP1	±16kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP2	±25kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP3	±40kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP4	±60kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP5	±100kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP6	-100~160kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP7	-100~250kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP8	-100~400kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP9	-100~600kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP10	-0.1~1MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP11	-0.1~1.6MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP12	-0.1~2.5MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.

## Micro Pressure and Accuracy Table

Code	Compound pressure range	Accuracy (Standard)	Accuracy (Option)	Media	Overpressure
MP1	±500Pa	±0.2%	—	Gas	3*F.S.
MP2	±1kPa	±0.05%	±0.1% , ±0.2%	Gas	3*F.S.
MP3	±2kPa	±0.05%	±0.1% , ±0.2%	Gas	3*F.S.
MP4	±5kPa	±0.05%	±0.1% , ±0.2%	Gas	3*F.S.
MP5	±10kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas	3*F.S.

## How to order

AT803-D Digital Precision Pressure Gauge									
Std.	Spec.	Code	Item	Code	Item	Code	Item	Code	Item
C	Pressure connection	C	∅4 mm test hose x2	O	Others (please specify)	—	—	—	—
Custom	Pressure range	Please refer to Pressure/Compound Pressure Range and Accuracy Table and select corresponding code							
1	Accuracy	1	Standard	2	±0.05%F.S.	3	±0.1%F.S.	—	±0.2%F.S.
V	Power supply	V	3.6V lithium battery	A	AA batteries x3	D	Input DC 9V (2A) adapter	—	—
/B	Other requests	/A	Third party notarized document						
		/B	Inspection report (issued by Re-Atlantis)						
		/C	Tag						

Order example: AT803-D - C - MP5 - 1 - V - /B